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Machine for installation of sheet piles - has single function driving
piles, with connected operating drives supported or suspended in frame
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Number of Countries: 017 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 4316824	A1	19941124	DE 4316824	A	19930519	199508 B
EP 628663	A2	19941214	EP 94106538	A	19940427	199508
EP 628663	A3	19950510	EP 94106538	A	19940427	199546
EP 628663	B1	19960925	EP 94106538	A	19940427	199643
DE 59400725	G	19961031	DE 500725	A	19940427	199649
			EP 94106538	A	19940427	
ES 2092845	T3	19961201	EP 94106538	A	19940427	199704

Priority Applications (No Type Date): DE 4316824 A 19930519

Cited Patents: No-SR.Pub; GB 2099478; US 3729938; US 3969904; US 4002035

Patent Details:

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EP 628663	A2	G	E02D-017/08
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EP 628663	A3	E02D-011/00	

Abstract (Basic): DE 4316824 A

The machine has single-function driving piles (7), with a drive unit (9) for movement. The unit consists of operating drives (10), which are connected to the piles, and supported in the machine frame (2), or suspended.

The counter frame elements (6) are free of the driving piles and connected with their ends to lifting and lowering drives (11). The drives are also fastened to the machine frame, and are controlled for counter frame movement. The counter frame elements are connected at right angles to their longitudinal direction, via expander elements (12).

USE/ADVANTAGE - Digging of ditches using dredgers. Simplified assembly and operation.

Dwg. 1/4

Abstract (Equivalent): EP 628663 B

A machine for the driving in and pulling of supporting wall elements (1) eg of sheet piles, when advancing trenches with the aid of an excavator, having a machine frame (2) which comprises two ground frame elements (3) disposed along the edge of the trench and running in the longitudinal direction of the trench, and tie-bars (4) joining the ground frame elements (3), and which is designed for guiding the supporting wall elements (1), a counterframe (5), which comprise two counter-frame elements (6), which are disposed in the cut trench, which

run in the longitudinal direction of the trench, which are raisable and lowerable in the trench, and on which the supporting wall elements (1) can be supported a driving beam (7) disposed in the machine frame (2) at each trench edge side, which driving beams extend in the longitudinal direction of the trench and can be attached individually or jointly by attachment devices to the supporting wall element (1) to be driven in or to be pulled, wherein the driving beams (7) are disposed in the machine frame (2) and are raisable and lowerable with the aid of drive devices (9), characterised in that the combination of the following features is put into effect, (a) the driving beam (7) are single-function driving beams and possess a drive device (9) for the travel of the driving beams, which drive device comprises adjusting drives (10), which are disposed in the region of the ends of the driving beams (7) which are attached on one side to the driving beams (7) and are supported or suspended on the other side on the machine frame (2), and which are controllable for the travel of the driving beams, (b) the counter-frame elements (6) are free from the driving beam (7) and are attached in the region of their ends to raising and lowering drives (11) and are guided by the latter, which raising and lowering drives (11) are fixed on the other side to the machine frame (2) and are controllable for the travel of the counter-frame, wherein the counter-frame elements (6) are joined transversely to their longitudinal direction via stretcher elements (12).

(Dwg.1/4)

Title Terms: MACHINE; INSTALLATION; SHEET; PILE; SINGLE; FUNCTION; DRIVE; PILE; CONNECT; OPERATE; DRIVE; SUPPORT; SUSPENSION; FRAME

Derwent Class: Q42

International Patent Class (Main): E02D-011/00; E02D-017/08

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